

ADDENDUM TO THE HIGHLY ERODIBLE SOIL MAP UNIT LIST FOR
ROSEAU COUNTY
R. B. HESCHKE

C = .25 & .20 R = 70
DATE 5-23-01 SIGNATURE J.W. MCCLOSKEY
(FOR FSA/FACTA PURPOSES ONLY)

MAP SYMBOL	MAPPING UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	EROSION INDEX* C=.25	EROSION INDEX* C=.20	HEL C* C=.25	HEL C* C=.20
47	COLVIN SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES	5	0.32	86	1	150	0.15	4.3	3.44	NHEL	NHEL
52	AUGSBURG LOAM, 0 TO 2 PERCENT SLOPES	4	0.28	86	1	150	0.15	5.38	4.3	NHEL	NHEL
59	GRIMSTAD FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	5	0.2	86	1	150	0.15	4.3	3.44	NHEL	NHEL
64	ULEN FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	5	0.2	86	1	150	0.15	4.3	3.44	NHEL	NHEL
65	FOXHOME SANDY LOAM, 0 TO 3 PERCENT SLOPES	3	0.2	86	1	150	0.15	7.17	5.73	NHEL	NHEL
67	BEARDEN SILT LOAM, 0 TO 2 PERCENT SLOPES	5	0.28	86	1	150	0.15	4.3	3.44	NHEL	NHEL
77	GARNES FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	5	0.32	86	1	150	0.15	4.3	3.44	NHEL	NHEL
111	HANGAARD SANDY LOAM, 0 TO 2 PERCENT SLOPES	2	0.2	86	1	150	0.15	10.7	8.6	HEL	HEL
116	REDBY LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES	5	0.17	134	1	150	0.15	6.7	5.36	NHEL	NHEL
117	CORMANT LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	5	0.17	134	1	150	0.15	6.7	5.36	NHEL	NHEL
133	DALBO LOAM, 0 TO 3 PERCENT SLOPES	5	0.37	48	1	150	0.15	2.4	1.92	NHEL	NHEL
145	ENSTROM LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES	5	0.17	134	1	150	0.15	6.7	5.36	NHEL	NHEL
147	SPOONER VERY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	5	0.37	86	1	150	0.15	4.3	3.44	NHEL	NHEL
187	HAUG MUCK, 0 TO 1 PERCENT SLOPES	5	-	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
191	EPOUFETTE LOAMY FINE SAND, MAP 22-30, 0 TO 2 PERCENT SLOPES	4	0.2	86	1	150	0.15	5.38	4.3	NHEL	NHEL
202	MERHAN LOAMY SAND, MAP 22-30, 0 TO 2 PERCENT SLOPES	5	0.17	134	1	150	0.15	6.7	5.36	NHEL	NHEL
205	KARLSTAD LOAMY SAND, 0 TO 3 PERCENT SLOPES	3	0.17	86	1	150	0.15	7.17	5.73	NHEL	NHEL
280	PELAN SANDY LOAM, 0 TO 3 PERCENT SLOPES	3	0.24	86	1	150	0.15	7.17	5.73	NHEL	NHEL
379	PERCY LOAM, 0 TO 2 PERCENT SLOPES, VERY COBBLY	5	0.28	0	1	150	0.15	-	-	NHEL	NHEL
383	PERCY LOAM, 0 TO 2 PERCENT SLOPES	5	0.28	86	1	150	0.15	4.3	3.44	NHEL	NHEL
384	PERCY MUCKY LOAM, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES	5	0.24	48	0.5	150	0.11	2.4	1.92	NHEL	NHEL
387	ROLISS LOAM, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES	5	0.24	48	0.5	150	0.15	2.4	1.92	NHEL	NHEL
404	CHILGREN FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	5	0.28	86	1	150	0.15	4.3	3.44	NHEL	NHEL
412	MAVIE FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	3	0.24	86	1	150	0.15	7.17	5.73	NHEL	NHEL
432	STRANDQUIST LOAM, 0 TO 2 PERCENT SLOPES	3	0.2	86	1	150	0.15	7.17	5.73	NHEL	NHEL
433	SYRENE MUCKY SANDY LOAM, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES	3	0.2	86	1	150	0.15	7.17	5.73	NHEL	NHEL
435	SYRENE SANDY LOAM, 0 TO 2 PERCENT SLOPES	3	0.2	86	1	150	0.15	7.17	5.73	NHEL	NHEL
439	STRATHCONA FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	5	0.2	86	1	150	0.15	4.3	3.44	NHEL	NHEL
481	KRATKA FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	5	0.17	86	1	150	0.15	4.3	3.44	NHEL	NHEL
482	GRYGLA LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	5	0.15	134	1	150	0.15	6.7	5.36	NHEL	NHEL
532	SAGO MUCK, 0 TO 1 PERCENT SLOPES	5	-	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
534	MOOSELAKE MUCKY PEAT, 0 TO 1 PERCENT SLOPES	5	-	56	0.5	150	0.11	2.8	2.24	NHEL	NHEL
540	SEELYEVILLE MUCK, 0 TO 1 PERCENT SLOPES	5	-	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
541	RIFLE MUCKY PEAT, MAP 18-22, 0 TO 1 PERCENT SLOPES	5	-	56	0.5	150	0.11	2.8	2.24	NHEL	NHEL
543	MARKEY MUCK, MAP 18-22, 0 TO 1 PERCENT SLOPES	4	-	134	0.5	150	0.11	8.38	6.7	HEL	NHEL
544	CATHRO MUCK, MAP 18-22, 0 TO 1 PERCENT SLOPES	5	-	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
546	LUPTON MUCK, MAP 22-30, 0 TO 1 PERCENT SLOPES	5	-	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
547	DEERWOOD MUCK, 0 TO 1 PERCENT SLOPES	3	-	134	0.5	150	0.11	11.2	8.93	HEL	HEL
550	DORA MUCK, 0 TO 1 PERCENT SLOPES	4	-	134	0.5	150	0.11	8.37	6.7	HEL	NHEL
561	BULLWINKLE MUCK, 0 TO 1 PERCENT SLOPES	5	-	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
563	NORTHWOOD MUCK, 0 TO 1 PERCENT SLOPES	5	-	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
565	ECKVOLL LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES	5	0.17	134	1	150	0.15	6.7	5.36	NHEL	NHEL
568	ZIPPEL VERY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	5	0.28	86	1	150	0.15	4.3	3.44	NHEL	NHEL
569	WABANICA SILT LOAM, 0 TO 2 PERCENT SLOPES	5	0.28	86	1	150	0.15	4.3	3.44	NHEL	NHEL
570	FAUNCE LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES	5	0.15	134	1	150	0.15	6.7	5.36	NHEL	NHEL
581	PERCY FINE SANDY LOAM, 0 TO 1 PERCENT SLOPES	5	0.28	86	1	150	0.15	4.3	3.44	NHEL	NHEL
582	ROLISS LOAM, 0 TO 2 PERCENT SLOPES	5	0.28	48	1	150	0.15	2.4	1.92	NHEL	NHEL
583	NERESON FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	5	0.2	86	1	150	0.15	4.3	3.44	NHEL	NHEL
627	TAWAS MUCK, MAP 22-30, 0 TO 1 PERCENT SLOPES	4	-	134	0.5	150	0.11	8.38	6.7	HEL	NHEL

MAP SYMBOL	MAPPING UNIT NAME	T	K	I	TYPICAL SLOPE PERCENT	TYPICAL SLOPE LENGTH	LS FACTOR	EROSION INDEX* C=.25	EROSION INDEX* C=.20	HELC* C=.25	HELC* C=.20
1399B	TWO INLETS LOAMY SAND, NONCALCAREOUS SUBSTRATUM, 0 TO 6 PERCENT SLOPES	5	0.15	134	2	150	0.23	6.7	5.36	NHEL	NHEL
1401	GRYGLA MUCKY LOAMY FINE SAND, DEPRESSIONAL, 0 TO 1 PERCENT SLOPES	5	0.15	134	0.5	150	0.11	6.7	5.36	NHEL	NHEL
1402	LEAFRIVER MUCK, WOODED, 0 TO 1 PERCENT SLOPES	2	-	134	0.5	150	0.11	16.7	13.4	HEL	HEL
1404	BERNER MUCK, WOODED, 0 TO 1 PERCENT SLOPES	2	-	134	0.5	150	0.11	16.7	13.4	HEL	HEL
1405	LALLIE MUCKY SILT LOAM, MAP 18-22, 0 TO 1 PERCENT SLOPES	5	0.37	0	0.5	150	0.11	-	-	NHEL	NHEL
1414	NERESON FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, VERY COBBLY	5	0.17	86	1	150	0.15	4.3	3.44	NHEL	NHEL
1428	KARLSRUHE SANDY LOAM, MAP 18-22, 0 TO 3 PERCENT SLOPES	5	0.2	86	1	150	0.15	4.3	3.44	NHEL	NHEL
1444	WURTSMITH LOAMY SAND, MAP 22-30, 0 TO 3 PERCENT SLOPES	5	0.17	134	1	150	0.15	6.7	5.36	NHEL	NHEL
1448	GRANO CLAY, MAP 18-22, 0 TO 2 PERCENT SLOPES	5	0.28	86	1	150	0.15	4.3	3.44	NHEL	NHEL
1449	GRANO LOAM, MAP 18-22, 0 TO 2 PERCENT SLOPES	5	0.24	56	1	150	0.15	2.8	2.24	NHEL	NHEL
1807	CATHRO MUCK, PONDED, MAP 22-30, 0 TO 1 PERCENT SLOPES	5	-	0	0.5	150	0.11	-	-	NHEL	NHEL
1808	MARKEY MUCK, PONDED, MAP 22-30, 0 TO 1 PERCENT SLOPES	4	-	0	0.5	150	0.11	-	-	NHEL	NHEL
1918	CROKE VERY FINE SANDY LOAM, 0 TO 2 PERCENT SLOPES	4	0.28	86	1	150	0.15	5.38	4.3	NHEL	NHEL
1923B	GARNES LOAM, 1 TO 4 PERCENT SLOPES, VERY STONY	5	0.32	0	2	150	0.23	-	-	NHEL	NHEL
1984	LEAFRIVER MUCK, 0 TO 1 PERCENT SLOPES	2	-	134	0.5	150	0.11	16.8	13.4	HEL	HEL

FROZEN HIGHLY ERODIBLE SOIL MAP UNIT LIST

APRIL 5, 1993

FOR ROSEAU COUNTY
 R. B. HESCHKE
 C = .25 & .20 R = 70

RECORD NUMBER	MAP SYMBOL	MAPPING UNIT NAME	T	K	I	EI*** C=.25	EI*** C=.20	HELC* C=.25	HELC* C=.20
MN0051	46	BORUP LOAM	4	.28	86	5.38	4.30	NHEL	NHEL
ND0295	47	COLVIN SILTY CLAY LOAM	5	.32	86	4.30	3.44	NHEL	NHEL
MN0004	48B	HIWOOD FINE SAND, 1 TO 6 PERCENT SLOPES	5	.15	250	12.5	10.0	HEL	HEL
MN0125	52	AUGSBURG LOAM	4	.28	86	5.38	4.30	NHEL	NHEL
MN0083	59	GRIMSTAD FINE SANDY LOAM	5	.20	86	4.30	3.44	NHEL	NHEL
MN0027	60	GLYNDON FINE SANDY LOAM	5	.28	86	4.30	3.44	NHEL	NHEL
MN0037	64	ULEN FINE SANDY LOAM	5	.20	86	4.30	3.44	NHEL	NHEL
MN0133	65	FOXHOME SANDY LOAM	3	.20	86	7.17	5.73	NHEL	NHEL
ND0296	67A	BEARDEN SILT LOAM, 0 TO 3 PERCENT SLOPES	5	.28	86	4.30	3.44	NHEL	NHEL
MN0117	77	GARNES FINE SANDY LOAM	5	.32	86	4.30	3.44	NHEL	NHEL
MN0005	116	REDBY LOAMY FINE SAND	5	.17	134	6.70	5.36	NHEL	NHEL
MN0002	117	CORMANT LOAMY FINE SAND	5	.17	134	6.70	5.36	NHEL	NHEL
MN0334	122	TAYLOR LOAM	3	.43	48	4.00	3.20	NHEL	NHEL
MN0019	145	ENSTROM LOAMY SAND	5	.17	134	6.70	5.36	NHEL	NHEL
MN0135	147	SPOONER VERY FINE SANDY LOAM	5	.37	86	4.30	3.44	NHEL	NHEL
MN0252	158B	ZIMMERMAN FINE SAND, 1 TO 6 PERCENT SLOPES	5	.17	250	12.5	10.0	HEL	HEL
MN0114	167B	BAUDETTE FINE SANDY LOAM, 1 TO 6 PERCENT SLOPES	5	.28	86	4.30	3.44	NHEL	NHEL
MN0268	172	INDUS CLAY	5	.28	86	4.30	3.44	NHEL	NHEL
MN0021	187	HAUG MUCK	5	--	134	6.70	5.36	NHEL	NHEL
MI0206	191	EPOUFETTE SANDY LOAM	4	.20	86	5.38	4.30	NHEL	NHEL
MN0334	195B	TAYLOR LOAMY FINE SAND, 1 TO 4 PERCENT SLOPES	3	.17	134	11.2	8.93	HEL	HEL
MN0046	205	KARLSTAD LOAMY SAND	3	.17	86	7.17	5.73	NHEL	NHEL
MN0047	242B	MARQUETTE LOAMY SAND, 1 TO 8 PERCENT SLOPES	2	.17	134	16.8	13.4	HEL	HEL
MN0120	280	PELAN SANDY LOAM	3	.24	86	7.17	5.73	NHEL	NHEL
MN0048	379	PERCY LOAM, VERY COBBLY	5	.28	--	--	--	NHEL	NHEL
MN0048	383	PERCY LOAM, CALCAREOUS SURFACE	5	.28	86	4.30	3.44	NHEL	NHEL
MN0510	384	PERCY MUCK, DEPRESSIONAL	5	--	86	4.30	3.44	NHEL	NHEL
MN0134	412	MAVIE LOAM	3	.24	86	7.17	5.73	NHEL	NHEL
MN0116	426	FOLDAHL FINE SANDY LOAM	5	.20	86	4.30	3.44	NHEL	NHEL
MN0122	432	STRANDQUIST SANDY LOAM	3	.20	86	7.17	5.73	NHEL	NHEL
MN0132	435	SYRENE FINE SANDY LOAM	3	.20	86	7.17	5.73	NHEL	NHEL
MN0633	439	STRATHCONA FINE SANDY LOAM	5	.20	86	4.30	3.44	NHEL	NHEL
MN0072	481	KRATKA FINE SANDY LOAM	5	.17	86	4.30	3.44	NHEL	NHEL
MN0020	482	GRYGLA LOAMY FINE SAND	5	.15	134	6.70	5.36	NHEL	NHEL
MI0166	514	TACOOSH MUCKY PEAT	5	--	56	2.80	2.24	NHEL	NHEL
MN0167	534	MOOSELAKE MUCKY PEAT	5	--	56	2.80	2.24	NHEL	NHEL
MN0128	540	SEELYEVILLE MUCK	5	--	134	6.70	5.36	NHEL	NHEL
MI0391	541	RIFLE MUCKY PEAT	5	--	56	2.80	2.24	NHEL	NHEL
MI0387	543	MARKEY MUCK	4	--	134	8.38	6.70	HEL	NHEL
MI0392	544	CATHRO MUCK	5	--	134	6.70	5.36	NHEL	NHEL
MI0393	546	LUPTON MUCK	5	--	134	6.70	5.36	NHEL	NHEL
MN0018	547	DEERWOOD MUCK	3	--	134	11.2	8.93	HEL	HEL
MN0469	561	BULLWINKLE MUCK	5	--	134	6.70	5.36	NHEL	NHEL
MN0486	563	NORTHWOOD MUCK	5	--	134	6.70	5.36	NHEL	NHEL
MN0415	565	ECKVOLL LOAMY FINE SAND	5	.17	134	6.70	5.36	NHEL	NHEL
MN0523	568	ZIPPEL VERY FINE SANDY LOAM	5	.28	86	4.30	3.44	NHEL	NHEL
MN0533	569	WABANICA SILT LOAM	5	.28	86	4.30	3.44	NHEL	NHEL
MN0532	570	FAUNCE FINE SAND	5	.15	134	6.70	5.36	NHEL	NHEL
MN0048	581	PERCY FINE SANDY LOAM	5	.28	86	4.30	3.44	NHEL	NHEL
MN0076	582	ROLISS LOAM	5	.28	48	2.40	1.92	NHEL	NHEL

RECORD NUMBER	MAP SYMBOL	MAPPING UNIT NAME	T	K	I	EI*** C=.25	EI*** C=.20	HEL C* C=.25	HEL C* C=.20
MN0118	583	NERESON FINE SANDY LOAM	5	.20	86	4.30	3.44	NHEL	NHEL
MI0027	627	TAWAS MUCK	4	--	134	8.38	6.70	HEL	NHEL
MN0181	630	WILDWOOD MUCK	3	--	134	11.2	8.93	HEL	HEL
MN0395	641	CLEARWATER CLAY	5	.28	86	4.30	3.44	NHEL	NHEL
MN0395	642	CLEARWATER LOAM	5	.28	56	2.80	2.24	NHEL	NHEL
MN0426	643	HUOT FINE SANDY LOAM	4	.20	86	5.38	4.30	NHEL	NHEL
MN0396	644	BOASH CLAY LOAM	5	.32	86	4.30	3.44	NHEL	NHEL
MN0406	645	ESPELIE FINE SANDY LOAM	4	.20	86	5.38	4.30	NHEL	NHEL
MN0401	647	HILAIRE FINE SANDY LOAM	4	.20	86	5.38	4.30	NHEL	NHEL
MN0412	651	THIEFRIVER FINE SANDY LOAM	3	.24	86	7.17	5.73	NHEL	NHEL
MN0606	708	RUSHLAKE LOAMY SAND	5	.17	134	6.70	5.36	NHEL	NHEL
MN0414	712	ROSEWOOD FINE SANDY LOAM	3	.24	86	7.17	5.73	NHEL	NHEL
MN0604	721B	CORLISS LOAMY SAND, 1 TO 6 PERCENT SLOPES	5	.15	134	6.70	5.36	NHEL	NHEL
MN0534	755	WOODSLAKE CLAY	5	.28	86	4.30	3.44	NHEL	NHEL
MN0260	794	CLEARRIVER LOAMY FINE SAND	5	.17	134	6.70	5.36	NHEL	NHEL
MN8001	1006	FLUVAQUENTS-HAPLOBOROLLS COMPLEX	5	.24	56	2.80	2.24	NHEL**	NHEL**
MN8002			5	.28	86	4.30	3.44		
NE0520	1030	UDIPSAMMENTS-PITS, GRAVEL COMPLEX	5	.02	134	6.70	5.36	NHEL**	NHEL**
--			5	--	--	--	--		
MN0051	1134	BORUP-GLYNDON COMPLEX	4	.28	86	5.38	4.30	NHEL**	NHEL**
MN0027			5	.28	86	4.30	3.44		
MN0633	1156	STRATHCONA-KRATKA COMPLEX	5	.20	86	4.30	3.44	NHEL**	NHEL**
MN0072			5	.17	86	4.30	3.44		
MN0697	1158	SKAGEN LOAM	5	.20	86	4.30	3.44	NHEL	NHEL
MN0698	1170	SKAGEN LOAM, VERY COBBLY	5	.28	--	--	--	NHEL	NHEL
MN0414	1181	ROSEWOOD-ULEN COMPLEX	3	.24	86	7.17	5.73	NHEL**	NHEL**
MN0037			5	.20	86	4.30	3.44		
MN0384	1187	DORA MUCK, PONDED	5	--	--	--	--	NHEL	NHEL
MN0002	1206	CORMANT-REDBY COMPLEX	5	.17	134	6.70	5.36	NHEL**	NHEL**
MN0005			5	.17	134	6.70	5.36		
MI0479	1807	CATHRO MUCK, PONDED	5	--	--	--	--	NHEL	NHEL
MI0387	1808	MARKEY MUCK, PONDED	4	--	--	--	--	NHEL	NHEL
MN0473	1918	CROKE VERY FINE SANDY LOAM	4	.28	86	5.38	4.30	NHEL	NHEL
MN0530	1984	LEAFRIVER MUCK	2	--	134	16.8	13.4	HEL	HEL

HIGHLY ERODIBLE LAND CLASSIFICATION

NHEL = NOT HIGHLY ERODIBLE LAND

PHEL = POTENTIALLY HIGHLY ERODIBLE LAND AND REQUIRES A FIELD VISIT TO DETERMINE A REPRESENTATIVE SLOPE PERCENT AND LENGTH FOR FSA PURPOSES.

HEL = HIGHLY ERODIBLE LAND

* THESE PHEL MAP UNITS ARE CONSIDERED HEL BASED ON TYPICAL SLOPE PERCENTAGE AND LENGTH FOR DETERMINATIONS MADE IN THE OFFICE.

** THESE PHEL MAP UNITS ARE CONSIDERED NHEL BASED ON TYPICAL SLOPE PERCENTAGES AND LENGTH FOR DETERMINATIONS MADE IN THE OFFICE.

*** USE THE MOST LIMITING SOIL IN THE COMPLEX TO DETERMINE THE RATING. ONLY ONE RATING IS GIVEN FOR A COMPLEX.

HEL C FOR WIND EROSION IS BASED ON THE C X I DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.

HEL C FOR WATER EROSION IS BASED ON THE R X K X LS DIVIDED BY T IS EQUAL TO OR GREATER THAN 8.